BRUHAT BANGALORE MAHANAGARA PALIKE

Improvements to roads of 12th to 18th cross Right side of jakkur layout in ward No. 07 Byatarayanapura.

Bill **ABSTRACT**

[Pick the date]

Estimate cost: 4850 **lakhs**

Ward 7 byatarayanapura

KRIDL

007-18-000046

1st & final

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to roads of 12th to 18th cross Right side of jakkur layout in ward No. 07 Byatarayanapura.

Measurements Taken On :

ABSTRACT OF MEASUREMENT SHEET - 1st and FINAL BILL

Item No	Description	Unit	Quantity	Approved Tender Rates	Amount	Remarks
Item No. 1	Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. and as per the directions of the Engineer-in-charge of the work .					
	present Qty	**Cum**	**245.48**			
	Previous Bill Qty	**Cum**	**0.00**			
	Total	**Cum**	**245.48**			
	BOQ Qty	**Cum**	**245.48**			
	Now to be paid	**Cum**	**245.48**	**186.92**	**45885.12**	
Item No. 02	Providing and laying in position Plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.46cum, machine mixed, Concrete Laid in layers not exceding 15cms thick well compacted, in foudation . including ost of all materials labour HOM of machinery curing complete as per Specification and as per the directions of the Engineer-in-charge of the work .					
	present Qty	**Cum**	**28.88**			
	Previous Bill Qty	**Cum**	**0.00**			
	Total	**Cum**	**28.88**			
	BOQ Qty	**Cum**	**28.88**			
	Now to be paid	**Cum**	**28.88**	**5348.76**	**154472.19**	
Item No. 03	Providing and removing centering, shuttering, strutting, propping etc., for Columns , pillers, post and Struts, square / rectangular /polygon in plan including cost of all materials, labour complete as per specification and as per the directions of the Engineer-in-charge of the work .					
	present Qty	**Sqm**	**729.60**			
	Previous Bill Qty	**Sqm**	**0.00**			
	Total	**Sqm**	**729.60**			
	BOQ Qty	**Sqm**	**729.60**			
	Now to be paid	**Sqm**	**729.60**	**387.96**	**283055.62**	

Assistant Executive Engineer,
R.R. Nagar, Sub-division,
KRIDL, BBMP, Bangalore

AssistantEngineer

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Kodigehalli Sub Division
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Bangalore - 560 092

Item No	Description	Unit	Quantity	Approved Tender Rates	Amount	Remarks
Item No. 04	Providing and laying in position reinforced cement concrete of Design mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed-2008 machine mixed concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation for footings, pedastals,rataing walls, return walls, walls (any thickness) including attached pilasters, columns pillers posts, struts, buttresses, bed nlocks, anchor blocks & plinths etc, including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specification and as per the directions of the Engineer-in-charge of the work					
	present Qty	**Cum**	**88.92**			
	Previous Bill Qty	**Cum**	**0.00**			
	Total	**Cum**	**88.92**			
	BOQ Qty	**Cum**	**88.92**			
	Now to be paid	**Cum**	**88.92**	**6371.66**	**566568.01**	
Item No.05	Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.					
	present Qty	**Tonne**	**4.90**			
	Previous Bill Qty	**Tonne**	**0.00**			
	Total	**Tonne**	**4.90**			
	BOQ Qty	**Tonne**	**4.90**			
	Now to be paid	**Tonne**	**4.90**	**64243.42**	**314792.76**	
Item No.06	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)					
	present Qty	**Sqm**	**228.00**			
	Previous Bill Qty	**Sqm**	**0.00**			
	Total	**Sqm**	**228.00**			
	BOQ Qty	**Sqm**	**228.00**			
	Now to be paid	**Sqm**	**228.00**	**2100.00**	**478800.00**	

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Item No	Description	Unit	Quantity	Approved Tender Rates	Amount	Remarks
Item No.07	Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications and as per the directions of the Engineer-in-charge of the work .					
	present Qty	**Cum**	**195.64**			
	Previous Bill Qty	**Cum**	**0.00**			
	Total	**Cum**	**195.64**			
	BOQ Qty	**Cum**	**195.66**			
	Now to be paid	**Cum**	**195.64**	**148.76**	**29103.11**	
Item No.08	Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications and as per drawing and the directions of Engineer in-charge.					
	present Qty	**Cum**	**183.66**			
	Previous Bill Qty	**Cum**	**0.00**			
	Total	**Cum**	**183.66**			
	BOQ Qty	**Cum**	**195.66**			
	Now to be paid	**Cum**	**183.66**	**1768.08**	**324725.57**	
Item No.09	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specification and as per drawing and the directions of Engineer in-charge.					
	present Qty	**Sqm**	**918.30**			
	Previous Bill Qty	**Sqm**	**0.00**			
	Total	**Sqm**	**918.30**			
	BOQ Qty 918.30	**Sqm**	**195.66**			
	Now to be paid	**Sqm**	**918.30**	**27.56**	**25308.35**	
Item No.10	Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications and as per the directions of the Engineer-in-charge of the work .					
	present Qty	**Sqm**	**6672.50**			
	Previous Bill Qty	**Sqm**	**0.00**			
	Total	**Sqm**	**6672.50**			
	BOQ Qty	**Sqm**	**6672.50**			
	Now to be paid	**Sqm**	**6672.50**	**3.18**	**21218.55**	

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Item No	Description	Unit	Quantity	Approved Tender Rates	Amount	Remarks
Item No.11	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specificationsrge.					
	present Qty	**Sqm**	**6672.50**			
	Previous Bill Qty	**Sqm**	**0.00**			
	Total	**Sqm**	**6672.50**			
	BOQ Qty	**Sqm**	**6672.50**			
	Now to be paid	**Sqm**	**6672.50**	**11.66**	**77801.35**	
Item No.12	Providing and laying bituminous concrete 40mm compacted thickness with VG30 Bitumen garde using 40-60 HMP using crushed aggregates of grading ll premixed with bituminous binder at 6% of mix and filler transporting the hot mix to work site laying with a mechanical paver finisher to the required grade level and alinment,rolling with smooth wheeled, vibratory and tandem rollers to achive the desired compaction as per MoRTH specification and as per the directions of the Engineer-in-charge of the work .					
	present Qty	**Cum**	**266.90**			
	Previous Bill Qty	**Cum**	**0.00**			
	Total	**Cum**	**266.90**			
	BOQ Qty	**Cum**	**266.90**			
	Now to be paid	**Cum**	**266.90**	**7150.76**	**1908537.84**	
Item No.13	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm aea thickness of 2.5 mm exclusive of surface applied glass beads as per IRC;35 the finished surface to be level , uniform and free from streaks and holes complete as per specification and as per the directions of the Engineer-in-charge of the work .					
	present Qty	**Sqm**	**244.83**			
	Previous Bill Qty	**Sqm**	**0.00**			
	Total	**Sqm**	**244.83**			
	BOQ Qty	**Sqm**	**244.83**			
	Now to be paid	**Sqm**	**244.83**	**542.72**	**132874.14**	
				SUB TOTAL AMOUNT	**4363142.60**	
				Add KRIDL @ 10%	**436314.26**	
				Labour Cess @ 1%	**43631.43**	
				TOTAL AMOUNT	**4843088.29**	

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